

*AMENDMENTS TO THE CLAIMS*

1. (Currently Amended) A local communications network providing communication between a mobile station and a fixed radio frequency station~~through the local communications network comprising:~~

a relay antenna; and

~~a data~~ wireless radio frequency transmission link which links the relay antenna to ~~a the fixed radio frequency station, wherein the transmission link is a wireless radio frequency transmission link~~ without any wired connection intervening between the relay antenna and the fixed radio frequency station.

2. (Previously Presented) The local communications network in accordance with Claim 1, wherein the wireless radio frequency transmission link includes means for transmitting and receiving signals at frequencies between 400 MHz and 18 GHz.

3. (Currently Amended) The local communications network in accordance with Claim 2, wherein the wireless radio frequency transmission link includes a first electronic device associated with the relay antenna and a second electronic device associated with the fixed radio frequency station and a wireless transmission channel ~~these~~ connecting the first and second electronic devices.

4. (Previously Presented) The local communications network in accordance with Claim 3, wherein the first electronic device includes means for analog/digital conversion~~and the second electronic device includes means for digital/analog conversion.~~

5. (Previously Presented) The local communications network in accordance with Claim 3 wherein the first and second electronic devices include means for compressing or decompressing the signal to be transmitted.

6. (Currently Amended) The local communications network in accordance with Claim 3, ~~including~~ wherein the relay antenna includes a multiband antenna, wherein the first electronic device includes means for identifying a channel on which signals to be transmitted are received by the multiband antenna.

7. (Currently Amended) The local communications network in accordance with Claim 3, wherein the first electronic device includes means for verifying ~~the~~ presence of a fixed radio frequency station ~~for~~ functioning at a frequency at which signals to be transmitted are received by the relay antenna.

8. (Currently Amended) The local communications network in accordance with Claim 1, ~~including several~~ a plurality of fixed radio frequency stations, each fixed radio frequency station functioning at a predetermined frequency and communicating with a multi-band antenna.

9. (Previously Presented) The local communications network in accordance with Claim 4, wherein the first and second electronic devices include means for compressing or decompressing the signal to be transmitted.

10. (Currently Amended) The local communications network in accordance with Claim 4, ~~including~~ wherein the relay antenna includes a multiband antenna, wherein the first electronic device includes means for identifying a channel on which signals to be transmitted are received by the multiband antenna.

11. (Currently Amended) The local communications network in accordance with Claim 5, ~~including~~ wherein the relay antenna includes a multiband antenna, wherein the first electronic device includes means for identifying a channel on which signals to be transmitted are received by the multiband antenna.

12. (Currently Amended) The local communications network in accordance with Claim 4, wherein the first electronic device includes means for verifying~~the~~ presence of a fixed radio frequency station~~for~~ functioning at a frequency at which signals to be transmitted are received by the relay antenna.

13. (Currently Amended) The local communications network in accordance with Claim 5, wherein the first electronic device includes means for verifying~~the~~ presence of a fixed radio frequency station~~for~~ functioning at a frequency at which signals to be transmitted are received by the relay antenna.

14. (Currently Amended) The local communications network in accordance with Claim 6, wherein the first electronic device includes means for verifying~~the~~ presence of a fixed radio frequency station~~for~~ functioning at a frequency at which signals to be transmitted are received by the relay antenna.

This listing of claims replaces all prior versions, and listings, of claims in the application.